



## DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.:

Activity No.: PER20070001

Agency Interest No.: 153020

Mr. Charles Theus  
Manager  
Tiger State Ethanol, L.L.C.  
1890 Hudson Circle, Suite 6  
Monroe, LA 71201

RE: Permit, St. Elmo Ethanol Facility  
Tiger State Ethanol, L.L.C., Paulina, St. James Parish, Louisiana

Dear Mr. Theus:

This is to inform you that the permit request for the above referenced facility has been approved under LAC 33:III.501. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets, and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Also enclosed is a document entitled "General Information." Please be advised that this document contains a summary of facility-level information contained in LDEQ's TEMPO database and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to [facupdate@la.gov](mailto:facupdate@la.gov).

The permit number cited below and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

Permit No.: 2560-00279-00

Sincerely,

Chuck Carr Brown, Ph.D.  
Assistant Secretary  
CCB: JER

**ENVIRONMENTAL SERVICES**  
PO BOX 4313, BATON ROUGE, LA 70821-4313  
P:225-219-3181 F:225-219-3309  
[WWW.DEQ.LOUISIANA.GOV](http://WWW.DEQ.LOUISIANA.GOV)

**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**St. Elmo Ethanol Facility  
Agency Interest No.: 141373  
Tiger State Ethanol, L.L.C.  
Paulina, St. James Parish, Louisiana**

**I. BACKGROUND**

Tiger State Ethanol, L.L.C. (TSE) proposes to construct and operate a 110 million gallon per year fuel grade ethanol facility which will be located in Paulina, Louisiana. This is the initial permit for the facility.

**II. ORIGIN**

A permit application and Emission Inventory Questionnaire (EIQ) dated September 7, 2007 were received requesting a permit. Additional information dated October 30, 2007 was also submitted.

**III. DESCRIPTION**

The St. Elmo Ethanol Facility will use grain as the feedstock to the dry milling process. The grain will be delivered to TSE by truck, railcar, and/or barge. The grain will be ground in hammer mills to produce a "meal", which will then be mixed with water to form a mash. Enzymes will be added, and the mash will be subjected to high temperatures to convert the starch to sugar. The mash is then cooled, yeast is added, and the mash is transferred to fermentation tanks where the sugar in the mash is transformed into a 10% ethanol (wet weight) "beer" mixture.

The fermented mash mixture is purified through a distillation and dehydration process. The beer mixture is pumped into the distillation system to separate the ethanol from the solids and water. The distilled ethanol is approximately 95% pure, and the residual water is removed in the dehydration system to produce anhydrous ethanol, which is 100% ethanol.

The produced ethanol is intended to be used as a fuel additive in gasoline, and is denatured with 2% to 4.75% gasoline to render it undrinkable. The denatured alcohol (DNA) is shipped to customers via tank truck, railcar, or barge.

The residual mash, known as "stillage", is transferred to the distiller's grain processing area where it is centrifuged to separate the coarse grains from soluble material. The solubles are concentrated by evaporation to make "syrup" which is then remixed with the coarse grain solids to form distiller's grain. The distiller's grain is dried and sold as "DDGS", an animal feed additive.

Tiger State Ethanol, L.L.C. proposes a federally enforceable operating hour limit of 8,400 hours per year on the St. Elmo Ethanol Facility in order to remain a synthetic minor source of criteria pollutants.

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**St. Elmo Ethanol Facility**  
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**Tiger State Ethanol, L.L.C.**  
**Paulina, St. James Parish, Louisiana**

Estimated emissions from this facility in tons per year are as follows:

Pollutant	Emissions in Tons per year
PM <sub>10</sub>	72.68
SO <sub>2</sub>	53.17
NO <sub>x</sub>	91.17
CO	93.91
VOC <sup>1</sup>	94.99

LAC 33:III. Chapter 51 VOC Toxic Air Pollutants (TAP's)	Emissions in Tons per year
Acetaldehyde	4.415
Acrolein	4.861
Benzene	0.228
Cumene	0.090
Dichlorobenzene	0.001
Ethyl benzene	0.180
Formaldehyde	1.195
Hexane	3.905
Methanol	5.908
Naphthalene	0.001
Toluene	1.362
Xylene	1.080
Total VOC TAP's	23.226

LAC 33:III. Chapter 51 non-VOC Toxic Air Pollutants (TAP's)	
Arsenic	<0.001
Cadmium	0.001
Chromium	0.001
Cobalt	<0.001
Manganese	<0.001
Mercury	<0.001
Nickel	0.002
Total non-VOC TAP's	0.004
Total TAP's	23.230

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Paulina, St. James Parish, Louisiana**

NG Boiler No. 1 (EQT 007) and No. 2 (EQT 008) shall comply with all applicable requirements of the New Source Performance Standards, 40 CFR Part 60 - Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.

The Off-Spec Tank (EQT 020), Day Tank No. 1 (EQT 021), DNA Tank No. 1 (EQT 022), DNA Tank No. 2 (EQT 023), and Denaturant Tank (EQT 024), shall comply with all applicable requirements of the New Source Performance Standards, 40 CFR 60, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.

Fugitive Equipment Leaks (FUG 002) shall comply with all applicable requirements of the New Source Performance Standards, 40 CFR 60, Subpart VV - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry.

**IV. TYPE OF REVIEW**

This permit was reviewed for compliance with Louisiana Air Quality Regulations and New Source Performance Standards (NSPS). Prevention of Significant Deterioration (PSD) and National Emission Standards for Hazardous Air Pollutants (NESHAP) do not apply.

This facility is a minor source of LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs).

**V. PUBLIC NOTICE**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on XXXXXX, and in the XXXXXX, on XXXXXX, and submitted to the XXXXX Parish Library, XXXX, XXXX, LA 71254 on XXXX.

**VI. EFFECTS ON AMBIENT AIR**

Dispersion Model(s) Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Ambient Air Quality Standard (NAAQS)

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**St. Elmo Ethanol Facility  
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Tiger State Ethanol, L.L.C.  
Paulina, St. James Parish, Louisiana**

**VII. GENERAL CONDITION XVII ACTIVITIES**

Work Activity	Schedule	PM <sub>10</sub>	Emission Rates - tons			
			SO <sub>2</sub>	NO <sub>X</sub>	CO	VOC
Firewater Pump	300 hrs/yr	0.07	0.06	0.97	0.21	0.08

**VIII. INSIGNIFICANT ACTIVITIES**

ID No.:	Description	Citation
ISA 01	1000 gallon Diesel Storage Tank	LAC 33 III 501.B.5.A.3

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated September 7, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.  
  
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
  2. Report by September 30 to cover April through June
  3. Report by December 31 to cover July through September
  4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
  2. Cause of noncompliance;
  3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
  4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
  5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
  - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
  - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

**General Information**

**AI ID:** 153020 St Elmo Facility  
**Activity Number:** PER20070001  
**Permit Number:** 2560-00279-00  
**Air - Minor (Synthetic) Initial**

Also Known As:	ID	Name	User Group	Start Date
	2560-00279	St Elmo Facility Tiger State Ethanol LLC	CDS Number Multimedia	09-12-2007 09-12-2007
Physical Location:		Ms River E Bank btw River Mile 150 & 151 Paulina, LA 70000		Main Phone: 3183234311
Mailing Address:		1890 Hudson Circle Ste 6 Monroe, LA 71201		
Related People:		Name	Mailing Address	Phone (Type)
		Charles Thues	1890 Hudson Circle Ste 6 Monroe, LA 71201	3183234311 (WP)
		Charles Thues	1890 Hudson Circle Ste 6 Monroe, LA 71201	3183234311 (WP)
		Charles Thues	1890 Hudson Circle Ste 6 Monroe, LA 71201	3183234311 (WP)
Related Organizations:		Name	Address	Phone (Type)
		Tiger State Ethanol LLC	1890 Hudson Circle Ste 6 Monroe, LA 71201	3183234311 (WP)
		Tiger State Ethanol LLC	1890 Hudson Circle Ste 6 Monroe, LA 71201	3183234311 (WP)
		Tiger State Ethanol LLC	1890 Hudson Circle Ste 6 Monroe, LA 71201	3183234311 (WP)

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 153020 - St Elmo Facility  
 Activity Number: PER2007001  
 Permit Number: 2560-00279-00  
 Air - Minor (Synthetic) Initial

## Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Entire Facility</b>						
EQT0001	001-07 - Grain Unloading			1.1 MM tons/yr		8400 hr/yr (All Year)
EQT0002	002A-07 - Grain Storage Silos			1.1 MM tons/yr		8400 hr/yr (All Year)
EQT0003	002B-07 - Grain Surge Bin			1.1 MM tons/yr		8400 hr/yr (All Year)
EQT0004	003-07 - Hammermills Nos. 1-4			1.1 MM tons/yr		8400 hr/yr (All Year)
EQT0005	004-07 - DDGS Loading			353571 MM tons/yr		8400 hr/yr (All Year)
EQT0006	005-07 - NG Boiler Common Stack					8400 hr/yr (All Year)
EQT0007	005A-07 - NG Boiler No. 1			144 MM BTU/hr		8400 hr/yr (All Year)
EQT0008	005B-07 - NG Boiler No. 2			144 MM BTU/hr		8400 hr/yr (All Year)
EQT0009	006-07 - Regen Thermal Oxidizer Common Stack			18 MM BTU/hr		8400 hr/yr (All Year)
EQT0010	006A-07 - Regen Thermal Oxidizer No. 1			18 MM BTU/hr		8400 hr/yr (All Year)
EQT0011	006B-07 - Regen Thermal Oxidizer No. 2			18 MM BTU/hr		8400 hr/yr (All Year)
EQT0012	006C-07 - DDGS Dyer No. 1			90 MM BTU/hr		8400 hr/yr (All Year)
EQT0013	006D-07 - DDGS Dyer No. 2			90 MM BTU/hr		8400 hr/yr (All Year)
EQT0014	006E-07 - Ethanol Process Vents			90 MM BTU/hr		8400 hr/yr (All Year)
EQT0015	006F-07 - ATM (WWTP Vent)			13.6 MM BTU/hr		7896 hr/yr (All Year)
EQT0016	007A-07 - VRS Flare - Truck/Rail Product Loading			13.6 MM BTU/hr		8760 hr/yr (All Year)
EQT0017	007B-07 - VRS Flare - Barge Product Loading			4.4 MM BTU/hr		8760 hr/yr (All Year)
EQT0018	007C-07 - ATM Flare - WWTP			1750 horsepower		8760 hr/yr (All Year)
EQT0019	008-07 - Backup Generator					250 hr/yr (All Year)
EQT0020	009A-07 - Off-spec Tank	300000 gallons				8760 hr/yr (All Year)
EQT0021	009B-07 - Day Tank No. 1	300000 gallons				8760 hr/yr (All Year)
EQT0022	009C-07 - DNA Tank No. 1	2.35 million gallons				8760 hr/yr (All Year)
EQT0023	009D-07 - DNA Tank No. 2	2.35 million gallons				8760 hr/yr (All Year)
EQT0024	010-07 - Denaturant (Gasoline) Tank	150000 gallons				8760 hr/yr (All Year)
EQT0025	011A-07 - DDGS Cooler No. 1			353400 tons/yr		8400 hr/yr (All Year)
EQT0026	011B-07 - DDGS Cooler No. 2			353400 tons/yr		8400 hr/yr (All Year)
EQT0027	012-07 - Cooling Tower No. 1			50000 gallons/min		8400 hr/yr (All Year)
FUG0001	FUG 001 - DNA Loading Fugitives					1500 hr/yr (All Year)
FUG0002	FUG 002 - Fugitive - Equipment Leaks					8760 hr/yr (All Year)
FUG0003	FUG 003 - Fugitives - Bulk Materials					8400 hr/yr (All Year)
FUG0004	FUG 004 - Vehicle Traffic					8400 hr/yr (All Year)

## Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
<b>Entire Facility</b>							
EQT0001	001-07 - Grain Unloading		45000	4		30	
EQT0002	002A-07 - Grain Storage Silos		5000	1.33		30	

**INVENTORIES**

AI ID: 153020 - St Elmo Facility  
 Activity Number: PER2007001  
 Permit Number: 2560-00279-00  
 Air - Minor (Synthetic) Initial

**Stack Information:**

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min/actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
<b>Entire Facility</b>							
EQT0003	002B-07 - Grain Surge Bin		5000	1.33		30	
EQT0004	003-07 - Hammermills Nos. 1-4		28800	3.67		30	
EQT0005	004-07 - DDGS Loading		3600	1.33		25	
EQT0006	005-07 - NG Boiler Common Stack	16.7	50000		50	50	250
EQT0007	005A-07 - NG Boiler No. 1	16.7	50000		50	50	250
EQT0008	005B-07 - NG Boiler No. 2	16.7	50000		50	50	250
EQT0009	006-07 - Regen Thermal Oxidizer Common Stack		191000	8		100	314
EQT0010	006A-07 - Regen Thermal Oxidizer No. 1						
EQT0011	006B-07 - Regen Thermal Oxidizer No. 2						
EQT0016	007A-07 - VRS Flare - Truck/Rail Product Loading		1500	1.67		25	1800
EQT0017	007B-07 - VRS Flare - Barge Product Loading		1500	1.67		25	1800
EQT0018	007C-07 - ATM Flare - WWTP		73	.25		20	1800
EQT0019	008-07 - Backup Generator		1111	.33		15	755
EQT0025	011A-07 - DDGS Cooler No. 1		10500	3		30	115
EQT0026	011B-07 - DDGS Cooler No. 2		10500	3		30	115
EQT0027	012-07 - Cooling Tower No. 1		986000	28		34	85

**Relationships:**

ID	Description	Relationship	ID	Description
EQT0007	005A-07 NG Boiler No. 1	Vents to	EQT0006	005-07 NG Boiler Common Stack
EQT0008	005B-07 NG Boiler No. 2	Vents to	EQT0006	005-07 NG Boiler Common Stack
EQT0010	006A-07 Regen Thermal Oxidizer No. 1	Vents to	EQT0009	006-07 Regen Thermal Oxidizer Common Stack
EQT0011	006B-07 Regen Thermal Oxidizer No. 2	Vents to	EQT0009	006-07 Regen Thermal Oxidizer Common Stack
EQT0012	006C-07 DDGS Dryer No. 1	Vents to	EQT0009	006-07 Regen Thermal Oxidizer Common Stack
EQT0013	006D-07 DDGS Dryer No. 2	Vents to	EQT0009	006-07 Regen Thermal Oxidizer Common Stack
EQT0014	006E-07 Ethanol Process Vents	Vents to	EQT0009	006-07 Regen Thermal Oxidizer Common Stack
EQT0015	006F-07 ATM (WWTP Vent)	Vents to	EQT0009	006-07 Regen Thermal Oxidizer Common Stack

**Subject Item Groups:**

ID	Group Type	Group Description
GRP0002	Equipment Group	011-07 - DDGS Coolers Group
UNF0001	Unit or Facility Wide	-

**Group Membership:**

ID	Description	Member of Groups

**INVENTORIES**

AI ID: 153020 - St Elmo Facility  
 Activity Number: PER20070001  
 Permit Number: 2560-00279-00  
 Air - Minor (Synthetic) Initial

**Group Membership:**

ID	Description	Member of Groups
EQT0025	011A-07 - DDGS Cooler No. 1	GRP0000000002
EQT0026	011B-07 - DDGS Cooler No. 2	GRP0000000002

**NOTE:** The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

**Annual Maintenance Fee:**

Fee Number	Air Contaminant Source	Multipier	Units Of Measure
0630	Organic Oxides, Alcohols, Glycols (Rated Capacity)	753.5	MM lb/Yr

**SIC Codes:**

2869	Industrial organic chemicals, nec	UNF001
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**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 153020 - St Elmo Facility  
 Activity Number: PER2007001  
 Permit Number: 2560-00279-00  
 Air - Minor (Synthetic) Initial

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Entire Facility															
EQT 0001 001-07							1.71	2.57	7.20						
EQT 0002 002A-07							0.04	0.06	0.17						
EQT 0003 002B-07							0.04	0.06	0.18						
EQT 0004 003-07							0.34	0.51	1.44						
EQT 0005 004-07							0.08	0.12	0.32						
EQT 0006 005-07	10.08	15.12	42.34	11.52	17.28	48.38	2.19	3.28	9.19	0.17	0.26	0.73	1.58	2.38	6.65
EQT 0009 006-07	10.52	15.78	44.20	8.64	12.96	36.29	9.26	13.89	38.89	12.47	18.71	52.38	11.25	16.87	47.24
EQT 0016 007A-07	5.04	7.56	3.88	0.93	1.40	0.75	0.001	0.001	0.003	0.001	0.001	0.001	1.90	2.86	1.46
EQT 0017 007B-07	5.04	7.56	1.57	0.93	1.40	0.33	0.001	0.001	0.003	0.001	0.001	0.001	1.90	2.86	0.58
EQT 0018 007C-07	1.64	2.45	0.72	0.31	0.46	0.17	0.001	0.001	0.003	0.001	0.001	0.001	0.62	0.92	0.26
EQT 0019 008-07	9.63	14.44	1.20	42.00	63.00	5.25	1.23	1.84	0.15	0.53	0.79	0.07	1.23	1.84	0.15
EQT 0020 008A-07													0.11	0.17	0.49
EQT 0021 009B-07													0.11	0.16	0.47
EQT 0022 009C-07													0.09	0.14	0.42
EQT 0023 009D-07													0.09	0.14	0.42
EQT 0024 010-07													0.43	0.65	1.90
EQT 0025 011A-07														6.05	
EQT 0026 011B-07														6.05	
EQT 0027 012-07							0.31	0.47	1.31				11.77	17.65	8.99
FUG 0001 FUG 002													2.06	3.09	9.02
FUG 003 FUG 003															
FUG 004 FUG 004															

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 153020 - St Elmo Facility  
Activity Number: PER2007001  
Permit Number: 2560-00279-00  
**Air - Minor (Synthetic) Initial**

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 153020 - St Elmo Facility

Activity Number: PER20070001

Permit Number: 2560-00279-00

Air - Minor (Synthetic) Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0006 005-07	Formaldehyde	0.022	0.032	0.091
	n-Hexane	0.518	0.778	2.177
EQT 0009 006-07	Acetaldehyde	0.78	1.17	3.27
	Acrolein	1.05	1.57	4.40
	Benzene	< 0.001	0.001	0.002
	Dichlorobenzene	< 0.001	< 0.001	0.001
	Formaldehyde	0.208	0.313	0.876
	Methanol	1.08	1.63	4.55
	Naphthalene	< 0.001	< 0.001	0.001
	Toluene	0.001	0.001	0.003
	n-Hexane	0.389	0.583	1.633
EQT 0019 008-07	Acetaldehyde	< 0.001	0.001	< 0.001
	Acrolein	< 0.001	< 0.001	< 0.001
	Benzene	0.011	0.017	0.001
	Formaldehyde	0.001	0.002	< 0.001
	Toluene	0.004	0.006	0.001
	Xylene (mixed isomers)	0.003	0.004	< 0.001
EQT 0020 009A-07	Acetaldehyde	< 0.001	< 0.001	< 0.001
	Methanol	< 0.001	< 0.001	< 0.001
EQT 0021 009B-07	Acetaldehyde	< 0.001	< 0.001	< 0.001
	Methanol	< 0.001	< 0.001	< 0.001
EQT 0022 009C-07	Acetaldehyde	< 0.001	< 0.001	< 0.001
	Methanol	< 0.001	< 0.001	< 0.001
EQT 0023 009D-07	Acetaldehyde	< 0.001	< 0.001	< 0.001
	Methanol	< 0.001	< 0.001	< 0.001
EQT 0024 010-07	Benzene	0.001	0.002	0.005
	Cumene	< 0.001	< 0.001	< 0.001
	Ethyl benzene	< 0.001	< 0.001	< 0.001
	Toluene	0.002	0.003	0.010
	n-Hexane	0.022	0.033	0.095
EQT 0025 011A-07	Acetaldehyde		0.41	
	Acrolein		0.163	
	Formaldehyde		0.082	
	Methanol		0.485	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 153020 - St Elmo Facility  
 Activity Number: PER20070001  
 Permit Number: 2560-00279-00  
 Air - Minor (Synthetic) Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0026 0118-07	Acetaldehyde		0.409	
	Acrolein		0.163	
	Formaldehyde		0.082	
	Methanol		0.485	
FUG 0001 FUG 001	Benzene	0.288	0.433	0.22
	Cumene	0.118	0.177	0.09
	Ethyl benzene	0.235	0.353	0.18
	Toluene	1.765	2.648	1.349
	Xylene (mixed isomers)	1.412	2.118	1.079
FUG 0002 FUG 002	Acetaldehyde	< 0.001	0.001	0.002
	Methanol	< 0.001	0.001	0.002
GRP 0002 011-07	Acetaldehyde	0.27		1.145
	Acrolein	0.11		0.46
	Formaldehyde	0.054		0.23
	Methanol	0.32		1.36
UNF 0001	Acetaldehyde			4.415
	Acrolein			4.861
	Benzene			0.228
	Cumene			0.090
	Dichlorobenzene			0.001
	Ethyl benzene			0.180
	Formaldehyde			1.195
	Methanol			5.908
	Naphthalene			0.001
	Toluene			1.362
	Toxic air pollutants (TAP)			23.23
	Xylene (mixed isomers)			1.080
	n-Hexane			3.905

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

**SPECIFIC REQUIREMENTS**

**AI ID:** 153020 - St Elmo Facility  
**Activity Number:** PER20070001  
**Permit Number:** 2560-00279-00  
**Air - Minor (Synthetic) Initial**

**EQT0001 001-07 Grain Unloading**

- 1 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 2 [LAC 33:III.501.C.6] Baghouses (including gaskets): Equipment/operational data monitored by technically sound method upon each occurrence of process unit shut down or whenever visible emission checks indicate maintenance may be necessary. Change elements as necessary.
- 3 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
- 4 [LAC 33:III.501.C.6] Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- 5 [LAC 33:III.501.C.6] Filter vents: Visible emissions monitored by visual inspection/determination daily. If visible emissions are observed, restore operation of the filter to its normal or usual manner of operation as expeditiously as practicable, but at a minimum within three working days, in accordance with good air pollution control practices for minimizing emissions.
- 6 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
- 7 [LAC 33:III.501.C.6] Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visible emission checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- 8 [LAC 33:III.1305] Particulate matter (10 microns or less) <= 0.005 gr/dscf.
- 9 [LAC 33:III.1305] Which Months: All Year Statistical Basis: None specified
- 10 [LAC 33:III.501.C.6] Particulate matter (10 microns or less) >= 99 % removal efficiency from filter manufacturer's certification.
- 11 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
- 12 [LAC 33:III.501.C.6] Filter vents: Visible emissions monitored by visual inspection/determination daily. If visible emissions are observed, restore operation of the filter to its normal or usual manner of operation as expeditiously as practicable, but at a minimum within three working days, in accordance with good air pollution control practices for minimizing emissions.
- 13 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
- 14 [LAC 33:III.501.C.6] Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visible emission checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

**EQT0002 002A-07 Grain Storage Silos**

- 8 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

**EQT0003 002B-07 Grain Surge Bin**

- 9 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 10 [LAC 33:III.501.C.6] Baghouses (including gaskets): Equipment/operational data monitored by technically sound method upon each occurrence of process unit shut down or whenever visible emission checks indicate maintenance may be necessary. Change elements as necessary.
- 11 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
- 12 [LAC 33:III.501.C.6] Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- 13 [LAC 33:III.501.C.6] Filter vents: Visible emissions monitored by visual inspection/determination daily. If visible emissions are observed, restore operation of the filter to its normal or usual manner of operation as expeditiously as practicable, but at a minimum within three working days, in accordance with good air pollution control practices for minimizing emissions.
- 14 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
- 15 [LAC 33:III.501.C.6] Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visible emission checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

**SPECIFIC REQUIREMENTS**

**AI ID:** 153020 - St Elmo Facility  
**Activity Number:** PER20070001  
**Permit Number:** 2560-00279-00  
**Air - Minor (Synthetic) Initial**

**EQT0003 002B-07 Grain Surge Bin**

- 14 [LAC 33:III.501.C.6] Particulate matter (10 microns or less) <= 0.005 gr/dscf.  
Which Months: All Year Statistical Basis: None specified
- 15 [LAC 33:III.501.C.6] Particulate matter (10 microns or less) >= 99 % removal efficiency from filter manufacturer's certification.  
Which Months: All Year Statistical Basis: None specified

**EQT0004 003-07 Hammermills Nos. 1-4**

- 16 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

**EQT0005 004-07 DDGS Loading**

- 17 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 18 [LAC 33:III.501.C.6] Baghouses (including gaskets): Equipment/operational data monitored by technically sound method upon each occurrence of process unit shut down or whenever visible emission checks indicate maintenance may be necessary. Change elements as necessary.  
Which Months: All Year Statistical Basis: Non specified
- 19 [LAC 33:III.501.C.6] Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- 20 [LAC 33:III.501.C.6] Filter vents: Visible emissions monitored by visual inspection/determination daily. If visible emissions are observed, restore operation of the filter to its normal or usual manner of operation as expeditiously as practicable, but at a minimum within three working days, in accordance with good air pollution control practices for minimizing emissions.  
Which Months: All Year Statistical Basis: None specified
- 21 [LAC 33:III.501.C.6] Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visible emission checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- 22 [LAC 33:III.501.C.6] Particulate matter (10 microns or less) <= 0.005 gr/dscf.  
Which Months: All Year Statistical Basis: None specified
- 23 [LAC 33:III.501.C.6] Particulate matter (10 microns or less) >= 99 % removal efficiency from filter manufacturer's certification.  
Which Months: All Year Statistical Basis: None specified

**EQT0007 005A-07 NG Boiler No. 1**

- 24 [40 CFR 60.48(b)(1)] Oxygen or Carbon dioxide monitored by CMS continuously, except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]  
Which Months: All Year Statistical Basis: One-hour average
- 25 [40 CFR 60.49b(a)] Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]

**SPECIFIC REQUIREMENTS**

**AI ID: 153020 - St Elmo Facility**  
**Activity Number: PER20070001**  
**Permit Number: 2560-00279-00**  
**Air - Minor (Synthetic) Initial**

**EQT0007 005A-07 NG Boiler No. 1**

- 26 [40 CFR 60.49b(b)] Submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B to DEQ. Subpart Db. [40 CFR 60.49b(b)]  
Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 27 [40 CFR 60.49b(d)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 28 [40 CFR 60.49b(g)] Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period. Subpart Db. [40 CFR 60.49b(h)]
- 29 [40 CFR 60.49b(h)] Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- 30 [40 CFR 60.49b(o)] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Compiles by using sweet natural gas as fuel).
- 31 [LAC 33.III.1101.B] Which Months: All Year Statistical Basis: None specified
- 32 [LAC 33.III.1131.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
- 33 [LAC 33.III.1151.C] Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

**EQT0008 005B-07 NG Boiler No. 2**

- 34 [40 CFR 60.48b(b)(1)] Oxygen or Carbon dioxide monitored by CMS continuously, except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]
- 35 [40 CFR 60.49b(a)] Which Months: All Year Statistical Basis: One-hour average  
Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]
- 36 [40 CFR 60.49b(b)] Submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 37 [40 CFR 60.49b(d)] Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period.
- Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 38 [40 CFR 60.49b(g)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]

**SPECIFIC REQUIREMENTS**

AI ID: 153020 - St Elmo Facility  
 Activity Number: PER20070001  
 Permit Number: 2560-00279-00  
 Air - Minor (Synthetic) Initial

**EQT0008 005B-07 NG Boiler No. 2**

- 39 [40 CFR 60.49b(h)] Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period. Subpart Db. [40 CFR 60.49b(h)]
- 40 [40 CFR 60.49b(o)] Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- 41 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 42 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
- 43 [LAC 33:III.1513.C] Which Months: All Year Statistical Basis: None specified Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

**EQT0009 006-07 Regen Thermal Oxidizer Common Stack**

- 44 [LAC 33:III.501.C.6] Arsenic < 0.001 lb/hr. Which Months: All Year Statistical Basis: Hourly average
- 45 [LAC 33:III.501.C.6] Arsenic < 0.001 lb/hr. Which Months: All Year Statistical Basis: Hourly maximum
- 46 [LAC 33:III.501.C.6] Arsenic < 0.001 tons/yr. Which Months: All Year Statistical Basis: Annual maximum
- 47 [LAC 33:III.501.C.6] Arsenic < 0.001 tons/yr. Which Months: All Year Statistical Basis: Annual maximum
- 48 [LAC 33:III.501.C.6] Cadmium < 0.001 lb/hr. Which Months: All Year Statistical Basis: Hourly average
- 49 [LAC 33:III.501.C.6] Cadmium < 0.001 lb/hr. Which Months: All Year Statistical Basis: Hourly maximum
- 50 [LAC 33:III.501.C.6] Chromium < 0.001 lb/hr. Which Months: All Year Statistical Basis: Hourly maximum
- 51 [LAC 33:III.501.C.6] Chromium < 0.001 tons/yr. Which Months: All Year Statistical Basis: Annual maximum
- 52 [LAC 33:III.501.C.6] Cobalt < 0.001 lb/hr. Which Months: All Year Statistical Basis: Hourly average
- 53 [LAC 33:III.501.C.6] Cobalt < 0.001 lb/hr. Which Months: All Year Statistical Basis: Annual maximum
- 54 [LAC 33:III.501.C.6] Cobalt < 0.001 tons/yr. Which Months: All Year Statistical Basis: Annual maximum
- 55 [LAC 33:III.501.C.6] Cobalt < 0.001 lb/hr. Which Months: All Year Statistical Basis: Hourly maximum

**SPECIFIC REQUIREMENTS**

**AI ID:** 153020 - St Elmo Facility  
**Activity Number:** PER20070001  
**Permit Number:** 2560-00279-00  
**Air - Minor (Synthetic) Initial**

**EQT0009 006-07 Regen Thermal Oxidizer Common Stack**

56	[LAC 33:III.501.C.6]	Manganese < 0.001 lb/hr. Which Months: All Year Statistical Basis: Hourly average
57	[LAC 33:III.501.C.6]	Manganese < 0.001 lb/hr. Which Months: All Year Statistical Basis: Hourly maximum
58	[LAC 33:III.501.C.6]	Mercury < 0.001 lb/hr. Which Months: All Year Statistical Basis: Hourly maximum
59	[LAC 33:III.501.C.6]	Mercury < 0.001 lb/hr. Which Months: All Year Statistical Basis: Hourly average
60	[LAC 33:III.501.C.6]	Mercury < 0.001 tons/yr. Which Months: All Year Statistical Basis: Annual maximum
61	[LAC 33:III.501.C.6]	Nickel I < 0.001 lb/hr. Which Months: All Year Statistical Basis: Hourly average
62	[LAC 33:III.501.C.6]	Nickel I <= 0.001 lb/hr. Which Months: All Year Statistical Basis: Hourly maximum
63	[LAC 33:III.501.C.6]	Nickel I <= 0.002 tons/yr. Which Months: All Year Statistical Basis: Annual maximum

**EQT0010 006A-07 Regen Thermal Oxidizer No. 1**

64	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average
65	[LAC 33:III.1513.C]	Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

66	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average
67	[LAC 33:III.1513.C]	Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

**EQT0012 006C-07 DDGS Dryer No. 1**

68	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average
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**SPECIFIC REQUIREMENTS**

**AI ID:** 153020 - St Elmo Facility  
**Activity Number:** PER20070001  
**Permit Number:** 2560-00279-00  
**Air - Minor (Synthetic) Initial**

**EQT0012 006C-07 DDGS Dryer No. 1**

Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

**EQT0013 006D-07 DDGS Dryer No. 2**

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: Six-minute average  
 Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

**EQT0016 007A-07 VRS Flare - Truck/Rail Product Loading**

Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]  
 Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares. Subpart A. [40 CFR 60.18(d)]  
 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]  
 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)]  
 Which Months: All Year Statistical Basis: None specified  
 Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

**EQT0017 007B-07 VRS Flare - Barge Product Loading**

Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]  
 Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares. Subpart A. [40 CFR 60.18(d)]  
 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]  
 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)]  
 Which Months: All Year Statistical Basis: None specified  
 Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

**EQT0018 007C-07 ATM Flare - WWTP**

Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]

**SPECIFIC REQUIREMENTS**

**AI ID:** 153020 - St Elmo Facility  
**Activity Number:** PER20070001  
**Permit Number:** 2560-00279-00  
**Air - Minor (Synthetic) Initial**

**EQT0018 007C-07 ATM Flare - WWTP**

- 83 [40 CFR 60.18(d)] Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares. Subpart A. [40 CFR 60.18(d)]  
 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]  
 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)]  
 Which Months: All Year Statistical Basis: None specified  
 Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

**EQT0019 008-07 Backup Generator**

- 87 [LAC 33:III.1513.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: Six-minute average  
 Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

**EQT0020 009A-07 Off-spec Tank**

- 89 [40 CFR 60.115b(a)(1)] Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]  
 Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.113b(a)(1) through (4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(a)(2)]  
 Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]  
 Equip with a submerged fill pipe.  
 90 [40 CFR 60.115b(a)(2)] Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place.  
 91 [40 CFR 60.115b(a)(3)] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.  
 92 [LAC 33:III.2103.B] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**SPECIFIC REQUIREMENTS**

AI ID: 153020 - St Elmo Facility  
 Activity Number: PER20070001  
 Permit Number: 2560-00279-00  
 Air - Minor (Synthetic) Initial

**EQT0021 009B-07 Day Tank No. 1**

- 96 [40 CFR 60.115b(a)(1)] Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]  
 Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.113b(a)(1) through (4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(a)(2)]  
 Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]  
 Equip with a submerged fill pipe.  
 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place.  
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a.e.  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**EQT0022 009C-07 DNA Tank No. 1**

- Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]  
 Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.113b(a)(1) through (4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(a)(2)]  
 Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]  
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a.e.  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**EQT0023 009D-07 DNA Tank No. 2**

**SPECIFIC REQUIREMENTS**

**AI ID:** 153020 - St Elmo Facility  
**Activity Number:** PER20070001  
**Permit Number:** 2560-00279-00  
**Air - Minor (Synthetic) Initial**

**EQT0023 009D-07 DNA Tank No. 2**

- 108 [40 CFR 60.115b(a)(1)]  
Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]  
Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.113b(a)(1) through (4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(a)(2)]  
Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]  
Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2103.H.3.a-e.  
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33.III.2103.I.1 - 7, as applicable.

**EQT0024 010-07 Denaturant (Gasoline) Tank**

- 113 [40 CFR 60.115b(a)(1)]  
Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]  
Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.113b(a)(1) through (4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(a)(2)]  
Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]  
Equip with a submerged fill pipe.  
Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place.  
Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2103.H.3.a-e.  
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33.III.2103.I.1 - 7, as applicable.

**EQT0025 011A-07 DDGS Cooler No. 1**

- 120 [LAC 33.III.1305]  
Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33.III.1305.A.1-7.

**SPECIFIC REQUIREMENTS**

**AI ID:** 153020 - St Elmo Facility  
**Activity Number:** PER20070001  
**Permit Number:** 2560-00279-00  
**Air - Minor (Synthetic) Initial**

**EQT0026 011B-07 DDGS Cooler No. 2**

- 121 [LAC 33:III.1305]  
 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

**EQT0027 012-07 Cooling Tower No. 1**

- 122 [LAC 33:III.1305]  
 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

**FUG0001 FUG 001 DNA Loading Fugitives**

- 123 [LAC 33:III.2107.B] VOC, Total  $\geq$  90 % DRE.  
 Which Months: All Year Statistical Basis: None specified  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2107.D.3-4.  
 Determine compliance with LAC 33:III.2107.B using the methods in LAC 33:III.2107.E.1 through 5, as appropriate.

**FUG0002 FUG 002 Fugitive - Equipment Leaks**

- 126 [40 CFR 60.487]  
 Submit semiannual report: Due semiannually to DEQ beginning six months after the initial startup date. Submit the information specified in 40 CFR 60.487(b) and (c). Subpart VV.

**UNF0001 Entire Facility**

- 127 [40 CFR 60.] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.  
 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.  
 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.  
 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.  
 Arsenic  $<$  0.001 tons/yr.  
 Which Months: All Year Statistical Basis: Annual maximum  
 Cadmium  $\leq$  0.001 tons/yr.  
 Which Months: All Year Statistical Basis: Annual maximum  
 Chromium  $\leq$  0.001 tons/yr.  
 Which Months: All Year Statistical Basis: Annual maximum

**SPECIFIC REQUIREMENTS**

**AI ID:** 153020 - St Elmo Facility  
**Activity Number:** PER20070001  
**Permit Number:** 2560-00279-00  
**Air - Minor (Synthetic) Initial**

**UNF0001 Entire Facility**

- 134 [LAC 33:III.501.C.6] Cobalt < 0.001 tons/yr.  
 Which Months: All Year Statistical Basis: Annual maximum
- 135 [LAC 33:III.501.C.6] Manganese < 0.001 tons/yr.  
 Which Months: All Year Statistical Basis: Annual maximum
- 136 [LAC 33:III.501.C.6] Mercury < 0.001 tons/yr.  
 Which Months: All Year Statistical Basis: Annual maximum
- 137 [LAC 33:III.501.C.6] Nickel <= 0.002 tons/yr.  
 Which Months: All Year Statistical Basis: Annual maximum  
 Operating time <= 8400 hr/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the operating time exceeds the maximum listed in this specific condition for any twelve consecutive month period.
- 138 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified  
 Operating time monitored by technically sound method continuously.
- 139 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified  
 Operating time recordkeeping by electronic or hard copy monthly. Keep records of the total operating time each month, as well as the total operating time for the last twelve months. Make records available for inspection by DEQ personnel.
- 140 [LAC 33:III.501.C.6] Submit report: Due annually, by the 31st of March. Report the operating time for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
- 141 [LAC 33:III.501.C.6] Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority.
- 142 [LAC 33:III.5611.A] During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.
- 143 [LAC 33:III.5611.B] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.
- 144 [LAC 33:III.919.D]